BRUHAT BENGALURU MAHANAGARA PALIKE

RR Nagar Division

Name Of Work : Providing Asphalt works at Selected reaches in ward no 17 Phase-02

Description of Items	Unit	No	Est .Cost Rs. L	B	D	60.00 Qty	Rate	Lakhs Amount
Road								
Removing & Refixing stone slabs of drains and pointing in C.M (1:3)P. No 27 I.No 5.33								
MES Road RHS	Sqm							
		1	714.60	1.20		857.52		
50% Broken and Missing slabs						-428.76		
						428.76	111.30	47720.99
Basic Rate	105.00							
Area Weightage 6%	6.30							
Total Rate	111.30							
KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications. MORTH Chapter 3 P.No 143 I.No 19.1								
Desilting	Cum							
MES Road RHS								
		1	714.60	0.60	0.55	235.82		
New Culvert								
		1	10.00	1.10	1.10	12.10		
						247.92	235.76	58449.15
Basic Rate	130.00							
Add Loading and Unloading	57.00							
Add for lead for earth (1.28 Tonne / Cum) 16km	40.96							
Area Weightage 6%	7.80							
Total Rate	235.76							
KSRRB M2900-1. **Plain cement concrete 1:3:6** mix with crushed stone aggregate 40 m nominal size mechanically mixed, placed in foundation and compacted by vibration including curing complete as per specifications MORTH Specification No. 408 KPWD S.R 2018-19 Page No. 254 I.No. 34.1								
MES Road RHS	Cum							
New Culvert								
		1	10.00	1.10	0.15	1.65		
						1.65	4,479.56	7391.27
Basic Rate	4,226.00							
Area Weightage 6%	253.56							
Total Rate	4,479.56							
Providing and laying plain/reinforced **cement concrete for side drains** using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 1200. including cost of materials, labour, HOM complete as per specifications.Wall & bottom thickness 15cm KPWD S.R 2018-19 Page No. 271 I.No. 7.59.2									
Raft	Cum							
New Culvert								
		1	10.00	1.00	0.15	1.50		
Side Wall								
New Culvert								
		2	10.00	0.23	0.90	4.14		
						5.64	7070.20	39875.93
Basic Rate	6,670.00							
Area Weightage 6%	400.20							
Total Rate	7,070.20							

RRB M2200-6. Providing **T.M.T. steel reinforcement** for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping d/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, oks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & 2200

T Bars Fe 500(P-229/28.8.2) PWD SR 2018-19									
r Drain		Ton							
tal RCC Quantity =		Cum					5.64		
For 1 Cum = 80		Kg					80.00		
							451.20		
							0.45	80146.60	**36162.15**
	Basic Rate	75,610.00							
	Area Weightage 6%	4,536.60							
	Total Rate	**80,146.60**							

SRB 5.14.1 : Providing and constructing precast concrete solid blocks with compressive strength not less than 3.5 Newton per sqm with cement ortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x15x20cms conforming to I.S: 2185/1965 in superstructure ncluding cost of materials, labour charges, scaffolding, curing complete as per specifications.-do with solid concrete blocks of size 400*200*200 mm (P-7/5.27.1) PWD SR 2018-19

Flagging Course Solid Block	**Sqm**								
MES Road RHS									
		2	714.60		0.40	571.68			
							571.68	966.72	**552654.49**
	Basic Rate	912.00							
	Area Weightage 6%	54.72							
	Total Rate	**966.72**							

Providing **ruled pointing** to coursed stone masonry with cement mortar, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, HOM curing complete as per specifications.– do – cement mortar 1:3(P-256/34.13.2) PWD SR 2018-19

Pointing For Wall	**Sqm**								
MES Road RHS									
		2	714.60		0.20	285.84			
							285.84	150.52	**43024.64**
	Basic Rate	142.00							
	Area Weightage 6%	8.52							
	Total Rate	**150.52**							

KSRB 4-1.6 ; Providing and laying in **position plain cement concrete of Mix 1:2:4** with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing omplete as per specifications. Specification No. KBS 4.1, 4.2KBS No.5.4KBS 5.1.13(P-27/4.6) PWD SR 2018-19

Copping For Wall	**Cum**								
MES Road RHS									
		2	714.60	0.20	0.15	42.88			
							42.88	5747.32	**246422.09**
	Basic Rate	5,422.00							
	Area Weightage 6%	325.32							
	Total Rate	**5,747.32**							

Providing **granite slabs of selected quality** roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete.- do - 10 cms thick (P-27/5.31.2) PWD SR 2018-19

New Slab	**Sqm**								
50% Broken and Missing slabs							428.76		
							428.76	966.72	**414490.87**
	Basic Rate	912.00							
	Area Weightage 6%	54.72							
	Total Rate	**966.72**							

KSRB 5-8.2 : Providing two line dressing to granite stone slab / granite stone masonry as per specifications. KBS 5.1.13(P-26/5.18) PWD SR 2018-19

New Slab	**Sqm**								
Qnty of New Slabs							428.76		

Basic Rate	1,495.00					428.76	1584.70	679455.97
Area Weightage 6%	89.70							
Total Rate	**1,584.70**							

KSRB 5-9 : Providing **chamfering edges to stone slab** 2.5 cms. Wide as per specifications. (only chamfered length shall be recorded) KBS 5.1.13(P-26/5.22) PWD SR 2018-19

New Slab	Sqm							
Qnty of New Slabs/0.6		715	3.60			2574.00		
Basic Rate	58.00					**2574.00**	61.48	**158249.52**
Area Weightage 6%	3.48							
Total Rate	**61.48**							

Providing & laying precast drain cover slab of 250 mm thickness in CM 1:3 including cost of all materials, labour, curing, transportation, loading, unloading etc, complete as per the directions of the Engineer In Charge.(1.2 x 0.60 x 0.25) (Approved Data rate)

New Slab	Sqm							
New Culvert		1	10.00	1.20		12.00		
Data Rate	5,418.00					**12.00**	5418.00	**65016.00**
Total Rate	**5,418.00**							

Providing and fixing pre cast **solid concrete kerb stones** of size **450x150x500** mm made out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting ete., complete.Page No. 27/ Item No. 5.29.2/ PWD SR 2018-19

New Kerb	No's							
MES Road RHS		1	714.60			714.60		
Total Length						**714.60**		
total Num of kerbs		1	714.60	/0.45		**1588.00**	467.46	**742326.48**
Basic Rate	441.00							
Area Weightage 6%	26.46							
Total Rate	**467.46**							

KSRRB 800-1. Painting **two coats after filling** the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 Page No. 180/ Item No. 24.1/ PWD SR 2018-19

Painting	Sqm							
Qnty of RR Kerb & New Kerb Length		1	714.60	0.40		285.84		
						285.84	84.80	**24239.23**
Basic Rate	80.00							
Area Weightage 6%	4.80							
Total Rate	**84.80**							
Footpath								

5 KSRRB M300-14. Excavation for **roadwork** in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications. MORTH Specification No.301(pg no-143,S.Lno-19.14)KPWD S.R 2018-19

For Foothpath	Cum							
MES Road RHS								
		1	714.60	2.00	0.45	643.14		
Basic Rate	41.00					**643.14**	84.42	**54293.88**
Add for lead for earth (1.28 Tonne / Cum) for 16km	40.96							
Area Weightage 6%	2.46							
Total Rate	84.42							

16 KSRRB M300-53. **Construction of embankment** with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300-2 complete as per specifications, including cost of gravel / murrum, watering charges & compaction by vibratory roller to 95% of modified proctors density. MORTH Specification No. 305 P.No 147 l.No 19.60

For Foothpath	Sqm (Cum.)							
MES Road RHS		1	714.60	2.00	0.23	328.72		
						328.72	344.50	**113242.66**
Basic Rate	325.00							

	Area Weightage 6%	19.50							
	Total Rate	344.50							

17 KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 Page No. 155/ Item No. 20.18/ PWD SR 2018-19

For Foothpath MES Road RHS	Cum							
		1	714.60	2.00	0.15	214.38		
Basic Rate	1,888.00					214.38	2001.28	429034.41
Area Weightage 6%	113.28							
Total Rate	2,001.28							

18 KSRB 4-1.6 ; Providing and laying in position plain cement concrete of **Mix 1:2:4** with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1,4.2Page No. 13/ Item No. 4.6PWD SR 2018-19

For Foothpath MES Road RHS	Cum							
		1	714.60	2.00	0.15	214.38		
Basic Rate	5,422.00					214.38	5747.32	1232110.46
Area Weightage 6%	325.32							
Total Rate	5,747.32							

19 Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift. Page No. 176/ Item No. 22.1.2 PWD SR 2018-19

For Foothpath MES Road RHS	Sqm							
		1	714.60	2.00		1429.20		
Basic Rate	68.00					1429.20	72.08	103016.74
Area Weightage 6%	4.08							
Total Rate	72.08							

Sub Total	5050208.56	504117
TP 5 %	252510.43	252358
GST 12%	636326.28	635944
PMC 1%	60000.00	
Miscellaneous	954.73	9579.9
Grand Total	6000000.00	

CERTIFICATE

1 The Work spot has been inspected and the work found to be necessary
2 The Estimate is prepared as per the PWD SR 2018-19
3 The Provision made in estimate are adequate and essential
4 This area comes under BBMP limits.

Asst.Engineer
Ward-17
BBMP

Asst.Executive Engineer
Yeshwanthpura Sub Division
BBMP

Executive Engineer
RR Nagara Divison
BBMP

ನಂ.: 206 ದಿನಾಂಕ: 29/12/2020
ರೂ. Sixty Lakhs only
ಅಂದಾಜು ಪಟ್ಟಿಗೆ ತಾತ್ಕಾಲಿಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ.
Bruhath Bengalore Mahanagara Palike

TECHNICAL SANCTION
Rs: 60 00000/- (Rs sixty lakhs only) is accorded
under the head: P - 3726
By CE(R.R.N.) P.No. 78-79
Registered as CE (R.R.N) No. 301/20-21 subject
to conditions contained in enclosed memo
No: 301/20-21 Dt. 10/2/2021
TA.
CE (R.R.N.)